CLASS 15 BRUSHING, SCRUBBING, AND GENERAL CLEANING

1 MISCELLANEOUS
1.51 ELECTROSTATIC CLEANING
1.52 Hand implement
1.7 SUBMERGED CLEANERS WITH AMBIENT FLOW GUIDES
2 MACHINES
2.1 For fruit, vegetables, meat or eggs
2.11 With assorting or screening
2.12 Fluid application and/or work heating (e.g., drying)
2.13 Work moved through apparatus
2.14 Liquid application only
2.15 Work treating element and/or work immersed
2.16 Work moved through apparatus
2.17 Transverse axis work treating elements
2.18 Longitudinally movable elements
2.19 Fixed axis rotary work treating conveyor
2.2 Axial work feed
2.21 Work conveyor mounted work treating elements
2.3 With means to pass a solid cleaning agent and a fluid carrier through tubular work
2.31 With conservation or recovery of the cleaning agent
2.32 By attached line
2.33 Erasing
2.34 With air blast or suction
2.35 Fixed position cleaners or installed cleaning systems
2.36 With liquid or other cleaning material application to work
2.37 With work handling or supporting
2.38 Hollow work internal cleaning, e.g., bag and/or bottle cleaners
2.39 Tumbling cylinders or cages
2.39.1 With means to guide or move the work to or through a cleaning station or treating means
2.39.2 With work-width compensating features
2.39.3 With work agitator, e.g., brushing, beating, shaking
2.39.4 Plural diverse types, e.g., beating and brushing

309.1 Indefinite length article
309.2 Plurality of discrete articles
310 Manual application of work to cleaning means
311 With moving work-agitating means
312.1 With fixed guide for ambulant air draft applying means
312.2 Flexible tube
313 Installed in automobile or other vehicle for the cleaning thereof
314 With flexible conduit connection between ambulant air draft applying means and relatively stationary air pump or supply
315 Extensible and retractable conduit
316.1 Air blast only (e.g., boiler soot-blower)
317 With blowing element housing or protecting feature, e.g., embedded, disappearing or cooling
318 Moving nozzle with air supply control interlocked with nozzle motion means
318.1 Sequence control
319 With automatic control
320 With liquid or other cleaning material application to work
321 Manipulatable nozzle with flexible conduit connection to portable power and/or material supply unit, e.g., window washer
322 Nozzles
323 With storage facilities for tools or nozzles, conduits, etc., e.g., racks and cabinets
324 Illuminator for work area
325 With fender or bumper, i.e., furniture guard
326 With sound muffling feature
327.1 Tank type cleaner organization
327.2 Casing feature
327.3 Air float or support
327.4 Cleaner encircling roller
327.5 Off-the-floor support (e.g., operator supported)
327.6 Vertically aligned motor and filter

May 2008
CLASS 15 BRUSHING, SCRUBBING, AND GENERAL CLEANING

327.7 ...Horizontally aligned motor and filter
328 ...Convertible
329 ...To or from hand held and hand manipulated
330 ...Suction to or from blast
331 ...Plural selective air draft means, e.g., on-floor to off-floor
332 ...With agitator and/or fan interlock, e.g., floor or rug safety feature
333 .....Floor nozzle elevating
334 .....Floor nozzle air flow diverted to off-floor cleaning means
335 .....Tubular handle, e.g., "Air-Way" type
336 ......With supporting means, e.g., wall-mounted clamp
337 ......By insertion or attachment of additive converter
338 .....Converter attached to floor nozzle mouth
339 .....Combined, e.g., with signal or indicator
340.1 ..Power propelled vehicle or carrier
340.2 ...Maneuvered by walking attendant
340.3 ...Including brush
340.4 ....Plural brushes
341 ...Traction or manual operation of air pump or fan
342 ...Rotary air impeller
343 ....Hand cranked
344 ...Hand supported and manipulated, e.g., miniature or upholstery type
345 ...Air blast with suction
346 ...Closed circuit systems, i.e., air recirculating
347 ...With dust or dirt handling or storing or separating, e.g., filter bags
348 ...With conveying means additional to air stream
349 ...With receiver for dirt from rotary or moving agitator
350 ...Separator mounted on or attached to manipulating handle, e.g., push broom type
351 ....Handle movable relative to floor tool air exhaust conduit
352 ...Separator element cleaning in situ and/or storage or removal of retained dirt
353 ...With liquid and/or deflection type separator
354 ...With work-contacting carriage or mount, and relatively adjustable nozzle
355 ...With agitator adjustable relative to nozzle
356 ...Interlocked or simultaneous adjustment
357 ...Suction responsive
358 ...With work surface contact or penetration sensing
359 ...Biased or floating nozzle
360 ....Urged away from contact with work
361 ...Handle operated or handle associated control
362 ...With nozzle carriage or mount having work-surface penetration control, e.g., differential area supporting wheels
363 ...With mechanical agitating means
364 ...Diverse agitating operations, e.g., brushing with beating or movable with stationary ....Selective
365 ...Rotary only, e.g., "Hoover" type beating brush
366 ....Stationary or non-moving agitating means only
367 ...Adjustable with respect to nozzle
368 ...Responsive to translational movement of nozzles
369 ...Rotary agitator with radially adjustable elements, e.g., wear compensating
370 ...Floating or resiliently biased contact with work surface
371 ...Rotary work contactor
372 ...Retractable, i.e., selective use
373 ...Oblique or V-shaped arrangement of agitator
374 ...With auxiliary ambient air inlet to nozzle, e.g., through air tunnel and/or agitator
375 ...Agitator bearing or drive air bleed
CLASS 15 BRUSHING, SCRUBBING, AND GENERAL CLEANING

May 2008

377 ...Auxiliary or separate, i.e., non-fan, driving motor
378 ...With guard to inhibit work entry into nozzle mouth
379 ...Vibrating nozzle or nozzle lips
380 ...Rectilinearly moving parallel to work surface, e.g., scrubbing
381 ...Oscillating agitator, e.g., sweeping
382 ...Striking beater, i.e., perpendicular movement
383 ...Rotary agitator
384 ...Tandem agitator units
385 ...Axis non-parallel to work surface
386 ...With eccentrically mounted turnable work contacting elements
387 ...Air current operated
388 ...Traction operated
389 ...Drive details
390 .....With clutch or other drive disconnect
391 .....Belt or drive housings or other protective features
392 .....Agitator bearings or supporting details
393 ...Stationary agitator
394 ...Work piece surrounding or opposed agitators, e.g., bar or slat cleaners
395 ...For opposed surfaces or hollow work internal cleaning
396 ...Hollow head with perforate reticulate supporting surface for agitator
397 .....With tubular air nozzles interspersed throughout work contacting surface
398 ...Bristle brush type
399 .....With bristle bridle or air seal or shroud
400 .....Nozzle attachment type
401 .....Scraper or squeegee type
402 .....Serrated or toothed, e.g., comb or rake type
403 .....Dry mop type, e.g., textile strand or sheet pelt
404 .....With pulsating air flow
405 ...Air blast only
406 ...For hollow work, internal cleaning, e.g., tube soot-blowers

407 ...Work operated valve
408 ...With induced flow of ambient air, e.g., jet pump
409 ...Jet pump suction-devices
410 ...Handle features, e.g., limit stops or storage locks
411 ...Angular or lateral adjustment of cleaner by axial rotation of handle
412 ...Motor features, e.g., housing or casing assemblies
413 ...Air cooling by other than main air stream
414 ...Detachable and/or extension nozzles
415.1 ...Nozzle
416 ...With plural mouths selectively usable, e.g., "duplex" nozzles
417 ...Top and bottom reversible type
418 ...With area adjusting, e.g., restrictors
419 ...With air flow control means, e.g., work-operated valve
420 ...With notched or grooved lips for localized intensification of air draft
421 ...With auxiliary inlet for ambient air, e.g., vacuum relief
422 ...With guard to inhibit work entry into nozzle mouth
422.1 ...Width changes along transverse dimension
422.2 ...Plural fans
423 ...Combined
424 ...Beater and brush
425 ...Brushing
426 ...Ball cleaner
427 ...Handle mount
428 ...Reciprocating tool
429 ...Belt brush
430 ...Swinging tool
431 ...Rotary cylinder
432 ...Fountain
433 ...Manual motor
434 .....Alternating
435 ...Traction operated
436 ...Rotary disk
437 ...Fountain
438 ...Boot cleaning, blacking, and polishing
439 ...Polish supplying
440 ...Rotary reciprocating brush
441 ...Reciprocating brush

May 2008
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Rotary brush</td>
</tr>
<tr>
<td>35</td>
<td>Planetary</td>
</tr>
<tr>
<td>36</td>
<td>Boot cleaners and polishers</td>
</tr>
<tr>
<td>37</td>
<td>Reciprocating brush</td>
</tr>
<tr>
<td>38</td>
<td>Brush cleaners</td>
</tr>
<tr>
<td>39</td>
<td>Comb cleaners</td>
</tr>
<tr>
<td>39.5</td>
<td>Table top or tablecloth cleaner</td>
</tr>
<tr>
<td>40</td>
<td>Flexible-fabric cleaners</td>
</tr>
<tr>
<td>41</td>
<td>Carpet sweeper</td>
</tr>
<tr>
<td>42</td>
<td>Auxiliary brush</td>
</tr>
<tr>
<td>43</td>
<td>Combined fan and brush</td>
</tr>
<tr>
<td>44</td>
<td>Dust laying</td>
</tr>
<tr>
<td>45</td>
<td>Fenders</td>
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<tr>
<td>46</td>
<td>Manual motor</td>
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<tr>
<td>47</td>
<td>Non-rotary</td>
</tr>
<tr>
<td>48</td>
<td>With brush cleaner</td>
</tr>
<tr>
<td>48.1</td>
<td>Unidirectional drive</td>
</tr>
<tr>
<td>49.1</td>
<td>Floor and wall cleaner</td>
</tr>
<tr>
<td>50.1</td>
<td>Scrubber</td>
</tr>
<tr>
<td>50.2</td>
<td>Reciprocating brush</td>
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<tr>
<td>50.3</td>
<td>Cylindrical brush</td>
</tr>
<tr>
<td>51</td>
<td>Endless wiper</td>
</tr>
<tr>
<td>52</td>
<td>Rotary wiper</td>
</tr>
<tr>
<td>52.1</td>
<td>Cylindrical brush</td>
</tr>
<tr>
<td>52.2</td>
<td>Reciprocating brush</td>
</tr>
<tr>
<td>53.1</td>
<td>Vehicle cleaner</td>
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<tr>
<td>53.2</td>
<td>Cylindrical brush</td>
</tr>
<tr>
<td>53.3</td>
<td>Moving vehicle</td>
</tr>
<tr>
<td>53.4</td>
<td>Wheel washer</td>
</tr>
<tr>
<td>54</td>
<td>Rail sweepers</td>
</tr>
<tr>
<td>55</td>
<td>Rotary brush</td>
</tr>
<tr>
<td>56</td>
<td>Receptacle cleaners</td>
</tr>
<tr>
<td>57</td>
<td>Barrel</td>
</tr>
<tr>
<td>58</td>
<td>Single stage</td>
</tr>
<tr>
<td>59</td>
<td>Bottle</td>
</tr>
<tr>
<td>60</td>
<td>Endless carrier</td>
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<tr>
<td>61</td>
<td>Tank</td>
</tr>
<tr>
<td>62</td>
<td>Reciprocating bottle rack</td>
</tr>
<tr>
<td>63</td>
<td>Rotary carrier</td>
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<tr>
<td>64</td>
<td>Tank</td>
</tr>
<tr>
<td>65</td>
<td>Single bottle</td>
</tr>
<tr>
<td>66</td>
<td>Bottle guide</td>
</tr>
<tr>
<td>67</td>
<td>Neck cleaners</td>
</tr>
<tr>
<td>68</td>
<td>Reciprocating brush</td>
</tr>
<tr>
<td>69</td>
<td>Water motor</td>
</tr>
<tr>
<td>70</td>
<td>Can</td>
</tr>
<tr>
<td>71</td>
<td>Inside brush</td>
</tr>
<tr>
<td>72</td>
<td>Collapsible</td>
</tr>
<tr>
<td>73</td>
<td>Cuspidor</td>
</tr>
<tr>
<td>74</td>
<td>Dish</td>
</tr>
<tr>
<td>75</td>
<td>Tumbler</td>
</tr>
<tr>
<td>76</td>
<td>Immersion</td>
</tr>
<tr>
<td>77</td>
<td>Sheet, bar, and plate cleaners</td>
</tr>
<tr>
<td>78</td>
<td>Street sweepers</td>
</tr>
<tr>
<td>79.1</td>
<td>Hand directed</td>
</tr>
<tr>
<td>79.2</td>
<td>Motor powered sweeper</td>
</tr>
<tr>
<td>80</td>
<td>Belt brush</td>
</tr>
<tr>
<td>81</td>
<td>Reciprocating brush</td>
</tr>
<tr>
<td>82</td>
<td>Rotary-brush cylinder</td>
</tr>
<tr>
<td>83</td>
<td>Collector</td>
</tr>
<tr>
<td>84</td>
<td>Elevator belt</td>
</tr>
<tr>
<td>85</td>
<td>Elevator pan</td>
</tr>
<tr>
<td>86</td>
<td>Elevator wheel</td>
</tr>
<tr>
<td>87</td>
<td>Rotary-brush disk</td>
</tr>
<tr>
<td>88</td>
<td>Wire, rod, and tube cleaners</td>
</tr>
<tr>
<td>88.1</td>
<td>Work moves past nonrotatable brush</td>
</tr>
<tr>
<td>88.2</td>
<td>Work moves past rotatable brush</td>
</tr>
<tr>
<td>88.3</td>
<td>Cylindrical brush</td>
</tr>
<tr>
<td>88.4</td>
<td>Cylindrical brush moves past work</td>
</tr>
<tr>
<td>89</td>
<td>Beating</td>
</tr>
<tr>
<td>90</td>
<td>Rotary drum</td>
</tr>
<tr>
<td>91</td>
<td>Stationary work</td>
</tr>
<tr>
<td>92</td>
<td>Portables</td>
</tr>
<tr>
<td>93.1</td>
<td>Scraping</td>
</tr>
<tr>
<td>93.2</td>
<td>Coke oven cleaner</td>
</tr>
<tr>
<td>93.3</td>
<td>Ditcher</td>
</tr>
<tr>
<td>93.4</td>
<td>Pallet, board, panel, etc.</td>
</tr>
<tr>
<td>94</td>
<td>Shaking</td>
</tr>
<tr>
<td>95</td>
<td>Shotting</td>
</tr>
<tr>
<td>96</td>
<td>Shakers</td>
</tr>
<tr>
<td>97.1</td>
<td>Wiping</td>
</tr>
<tr>
<td>97.2</td>
<td>Shoe polisher</td>
</tr>
<tr>
<td>97.3</td>
<td>Vehicle cleaner</td>
</tr>
<tr>
<td>98</td>
<td>Floor and wall cleaner</td>
</tr>
<tr>
<td>99</td>
<td>Endless belt</td>
</tr>
<tr>
<td>100</td>
<td>Photographic-film cleaners</td>
</tr>
<tr>
<td>101</td>
<td>Receptacle cleaners</td>
</tr>
<tr>
<td>102</td>
<td>Sheet, bar, and plate cleaners</td>
</tr>
<tr>
<td>103</td>
<td>Window cleaners</td>
</tr>
<tr>
<td>103.5</td>
<td>Rolling contact type with material supply</td>
</tr>
</tbody>
</table>

**IMPLeMENTS**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>104.001</td>
<td>IMPLements</td>
</tr>
<tr>
<td>104.002</td>
<td>Adhesive lint remover</td>
</tr>
<tr>
<td>104.011</td>
<td>Cylinder, piston or plug cleaner</td>
</tr>
<tr>
<td>104.012</td>
<td>Piston groove</td>
</tr>
<tr>
<td>104.013</td>
<td>Reamers</td>
</tr>
<tr>
<td>104.03</td>
<td>Pipe, tube, or conduit cleaner</td>
</tr>
<tr>
<td>104.04</td>
<td>Outside</td>
</tr>
<tr>
<td>104.05</td>
<td>Inside</td>
</tr>
<tr>
<td>104.061</td>
<td>Fluid current operated</td>
</tr>
<tr>
<td>104.062</td>
<td>Cleaner plug insertion or removal device</td>
</tr>
<tr>
<td>104.063</td>
<td>Scraper with signalling device</td>
</tr>
<tr>
<td>104.066</td>
<td>Brush or broom flue cleaner</td>
</tr>
</tbody>
</table>
104.067 ...Suspended by a taut member (e.g., wire, rope, chain, etc.)
104.068 ...Scraper flue cleaner
104.069 ...Suspended by a taut member (e.g., wire, rope, chain, etc.)
104.07 ...Hammer
104.08 ...Tube deformer
104.09 ...Rotary tool
104.095 ...Power source outside tube end
104.096 ...Container cleaner
104.11 ...Inside boiler drum
104.12 ...Contiguous fluid motor
104.13 ...Plural rotary cutter
104.14 ...Centrifugally pivoted reciprocating tool
104.15 ...Plural rotary cutter
104.16 ...Scaper, cutter, wiper or brush
104.165 ...Non-piercing fabric holder
104.17 ...Expanding at both ends
104.18 ...Expanding at one end
104.19 ...Expanding between ends
104.2 ...Radial bristle
104.31 ...Sewer
104.32 ...Grapple
104.33 ...Snake
104.34 ...Sewer
104.35 ...Multiple strand type
104.36 ...With rigid supporting frame
104.37 ...With attached brush
104.38 ...Non-planar groups of strands
104.39 ...With coating material receiver
104.40 ...Machine-attachable bottle washing implement
104.41 ...Stationary implement with material supply
104.42 ...Tool coated or impregnated with material supply
104.43 ...Including means for manual manipulation of implement
105 ...Combined
105.5 ...Mortar-joint finisher
105.51 ...Eraser
105.52 ...And brush
105.53 ...And cutter
106 ...Brush
107 ...Dauber and polisher
110 ...Brush and massage-tool
111 ...Brush and scraper
112 ...Boot cleaners
113 ...Hand
114 ...Brush and wiper
115 ...Mop
116.1 ...Mop and wringer
116.2 ...Sponge mop
117 ...Brush and squeegee
118 ...Wiper
119.1 ...Mop and wringer
119.2 ...Sponge mop
120.1 ...Twister
120.2 ...Assisted by modified handle
121 ...Squeegee
124 ...Eraser
125 ...Including handling means
126 ...And means for non-use attachment to a support
127 ...Which is pencil sheath or casing
129 ...Including advancing means for erasive body
130 ...Axially adjustable sleeve
131 ...Including enclosure for base of erasive body
132 ...Multi-partite handling means
133 ...Including advancing means for erasive body
134 ...Directly adjustable erasive body
135 ...Penpoint or penholder
136 ...Including projectable and retractive penpoint
137 ...With means supporting or stabilizing implement in use
138 ...Including manually adjustable gripping or releasing means for penpoint
139 ...Pivoted or arcuately movable
140 ...About axis of penholder
141 ...Including opposed, relatively axially movable gripping members
142 ...And ejector
143 ...Penholder shaped to receive or engage hand or finger
144 ...Penholder includes specific penpoint retaining means
145 ...Specific penpoint
146 ...Specific material
147 ...Bifurcate
148 ...Beater
149 ...Rotary
150 ...Grids and combs
151 ...Particular Handle
CLASS 15 BRUSHING, SCRUBBING, AND GENERAL CLEANING

144.1 .Adjustable
144.2 .Universally
144.3 .Variable length
144.4 .Telescopic
145 .Detachable
146 .Holder, brush and broom
147.1 .Holder, mop
147.2 .Nonclamped
148 .Convertible
149 .Expansible
150 .Pivoted jaw
151 .Sliding jaw
152 .Lever operated
153 .Screw operated
154 .Spring wire and runner
154.2 .With shaker
159.1 .Brush or broom
160 .Special work
161 .Boot cleaners
164 .Hollow-ware cleaners
165 .Collapsible
166 .Stripping
167.1 .Tooth or nail brush
167.2 .Concurrently brushes plural tooth surfaces
167.3 .Nail brush
168 .Bridles
169 .Adjustable
170 .Straw supported
171 .Heads and casings
172 .Adjustable head
173 .Axial clamp
174 .Bands
175 .Braces, caps, and shields
176.1 .Detachable head
176.2 .With handle-head cooperating threads
176.3 .With screw-type fastener
176.4 .Perpendicularly insertable
176.5 .With securing means
176.6 .With securing means
177 .Lateral clamp
178 .Pivoted jaw
179 .Rotary
180 .Disk
181 .Laminated
182 .Spiral bristle mount
183 .Tuft-holding bar
184 .Housings
185 .Pivoted
186 .Individual-bristle mount
187 .Integral
188 .Rubber
189 .Stitched and wire bound
190 .Tuft fasteners
191.1 .Tuft socket
192 .Cemented
193 .Plastic mass
194 .Detachable tuft
195 .Folded tuft
196 .Drawn work
197 .Metal bristle
198 .Rotary
199 .Retaining wire
200 .Metal bristle
201 .Moveable tuft section
202 .Detachable
203 .Folding
204 .With core
205 .Folded tuft
205.2 .Fountain
206 .Twisted bristle holder
207 .Wire wound
207.2 .Bristle configuration or composition
210 .Special work
210.1 .Special work
210.5 .Graining implements
211 .Hollow-ware cleaners
212 .Expansible
213 .Rotary
214 .Lens cleaners
215 .Mats
216 .Combined
217 .Tuft carrying
218 .Razor cleaners
218.1 .Cutlery cleaners
219 .Wall-paper cleaners
220.1 .Window cleaner
220.2 .Magnetic
220.3 .Venetian blind cleaner
220.4 .Rod or wire cleaner (e.g., dipstick cleaner)
221 .Collection chamber
222 .End grip
223 .Work face with exposed laminae
224 .Channeled
225 .Coil
226 .Strands
227 .Mitts, cots, and shoes
228 .Mops and heads
229.1 .Having strands
229.2 .With fixed handle
229.3 .And cloth sheath type head
229.4 .And pocket type head
229.5 .And twisted wire frame

May 2008
229.6 .....With pivoted handle
229.7 ......And cloth sheath type head
229.8 ......And pocket type head
229.9 ......And twisted wire frame
229.11 ...Scourer (hand manipulated)
229.12 ....Fibrous mass (e.g., steel wool)
229.13 .....With handle or holder
229.14 ...Powder puff
230 .....Rotary
230.1 .....With cooling means
230.11 ....Roller with handle
230.12 ....Adhesively bound parts
230.13 ....Coli wound
230.14 ....Sectored disc or cylinder
230.15 ....Stitched laminates
230.16 ....Interrupted work engaging surface
230.17 ....Fabric-piercing securing element
230.18 ....Working surface dished inwardly or outwardly
230.19 ....With discrete mechanical fabric securing means
231 ...Sheet holders
232 .....Window cleaners
233 ...Tension frame
234 .....Feather
235 .....Pelts
235.3 .Mortar-joint finisher or simulator
235.4 .Mason's trowel or float
235.5 ..Darby type
235.6 ..Undulated
235.7 ..Corner type
235.8 ..Adjustable
236.01 .Scrapers
236.02 .Windshield
236.03 .Paint roller
236.04 ....Gutter
237 .....Boot cleaners
238 .....Mats
239 ....Pivoted link
240 .....Filler block
241 ....Wire
236.05 ..Plural bladed
236.06 ...Simultaneously useable
236.07 ..Arcuate scraping edge
236.08 ..Toothed or serrated
236.09 ..For plural surfaces
236.1 ..Rotary
244.1 .Sponge or sponge with holder
244.2 ...Having pivoted handle
244.3 ...Having fabric cover or back
244.4 ..Sponge
245 .Squeegee
245.1 .Bladed spreader
246 .ATTACHMENTS
246.2 .For a vacuum cleaner
246.3 ..With treating means (e.g., deodorizing, sterilizing, etc.)
246.4 ..Moveable carriage
246.5 .Tank cleaners
246.6 .Covers and cover holders
248.1 .Drip cup or splash guard for a brush or broom
248.2 ..For roller
249.1 .Brush or broom-type flue cleaner
249.2 .Scraper-type flue cleaner
249.3 ..Suspended by a taut member (e.g., wire, rope, chain, etc.)
250.001 .Optical-member-attachable cleaner (e.g., windshield wiper)
250.002 ..Headlight cleaner
250.003 ..Mirror cleaner
250.01 ..With material applying means
250.02 ...Coordinated operation of cleaner and applying means
250.03 ...Supply source carried by cleaning element
250.04 ...Applying means moves with cleaning element
250.05 ..With heating means
250.06 ...Embedded in wiper blade
250.07 ...Movable with cleaning element
250.08 .....Laterally offset to engage pane
250.09 ....Heating element between plural blades
250.1 ..Window moved on cleaner
250.11 ..Readily attached and detached cleaner for building windows
250.12 ..Constant speed or automatic motor control
250.13 ..Sweep varying or regulating means
250.14 ..Plural out-of-phase cleaning elements
250.15 ..Cleaning element spring returned
250.16 ..With parking means
250.17 ..Electrical
250.18 ..Convertible to manual operation
250.19 ..Cleaning element moved from surface
250.201 ..Wind deflecting means
CLASS 15 BRUSHING, SCRUBBING, AND GENERAL CLEANING

250.202 Pressure adjusting means for cleaning element
250.203 Operated by remote control
250.204 Compound motion of oscillating arm
250.205 Rotating cleaning element
250.206 Cleaning element moved relative to arm when arm moves
250.207 Chain, belt or cable carried cleaning element
250.208 Chain, belt or cable driven operating shaft
250.209 Screw type drive for reciprocating cleaning element
250.210 Operating connection for plural oscillating cleaning elements
250.211 Opposed cleaning elements
250.212 With means to reciprocate cleaning element
250.213 With means to oscillate arm
250.214 Specific coupling or mounting for a driving means or between a cleaning element and means linking it to the driving means
250.215 Arm-to-cleaning element connection
250.216 Hinged longitudinally of cleaning element
250.217 Arm-to-actuating shaft detail
250.218 Specific arm structure
250.219 Between hub and extended arm
250.220 Cleaning element structure
250.221 With attached roller
250.222 Longitudinal tensioning means for blade
250.223 Adjustable length
250.224 Supplemental cleaning means brought into surface contact
250.225 Plural spaced surface engaging edges
250.226 Accommodates optical-member having curved surface
250.227 Articulated support structure
250.228 Specific backing member
250.229 Securing a squeegee
250.230 Secured by articulated structure
250.231 Biased latching member
250.232 Specific joint, hinge, or pivot
250.233 Spring type
250.234 Specific squeegee structure
250.235 Moving surface scraper, wiper, or brush

256.51 Roll cleaners
256.52 Rotary
256.53 Reciprocating or traveling
256.6 Strand
257.01 ACCESSORIES
257.05 Coating applicator loading means
257.06 For loading roller type applicators
257.07 Inkwell
257.072 Including implement-actuated diaphragm to produce material moving force
257.073 Including means limiting immersion of penpoint
257.074 Anti-spill type
257.075 Including implement-opened access means
257.076 Including means defining applicator-loading zone
257.1 Debris receptacle (e.g., dustpan)
257.2 With means to attach to brush or broom
257.3 Separate inlet and outlet
257.4 Receptacle gravitatable to material retaining position
257.5 Foothold or pedal operator
257.6 With movable closure
257.7 Adjustable, relatively movable or detachable handle
257.8 Foot or prop on rear of receptacle
257.9 Auxiliary, flexible or reinforced edge
258 Blacking-box and brush cases
259 Blacking-box holders
260 Mop wringers
261 Presser boards
262 Roller
263 Twisters
264 Scrubbing pails
265 Shoe-blacking stands
266 Polisher guides
267 Shoe clamps
268 WORK SUPPORTS

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS
DIGESTS

DIG 1  RECHARGEABLE BATTER
DIG 2  CAR CLEANING PLANTS
DIG 3  MATRIX
DIG 4  FERRULES
DIG 5  VARIED LENGTH BRISTLE
DIG 6  VARIED COMPOSITION BRISTLE
DIG 7  DRIERS
DIG 8  DUST BAGS AND SEPARATORS
DIG 9  DUST MOP CLEANERS
DIG 10 HANDLES, REELS AND SWITCHES
DIG 11 INDICATORS
DIG 12 TAPE HEAD CLEANER
DIG 13 MAGNETIC TAPE CLEANER
DIG 14 PHONOGRAPH RECORD CLEANER
DIG 15 MOISTURE RESPONSIVE